bürkert
FLUID CONTROL SYSTEMS



2/2-way ball valve with electric rotary actuator, ball valve in plastic, DN 10-50

- Suitable for aggressive media
- High flow rate value
- Actuator with adjustable limit switches
- Visual position indicator
- Safe blocked union nuts with Dual Block® Technology[1]

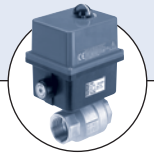
Type 8804 can be combined with…



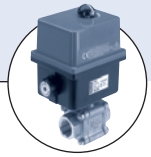
Type 2672
Metal butterfly valve



Type 2675
Plastic
butterfly valve



Type 8804
Stainless steel
ball valve, 2 pieces



Type 8804
Stainless steel
ball valve, 3 pieces

The electric ball valve Type 8804 consists of an electrical rotary actuator and a 2/2-way ball valve made of plastic. Different housings and materials are available for various applications. The rotary actuator is compactly built. It can be used also as single device for the operation of other control members (see datasheet Type 3003).

Special features

The ball valves are equipped with the so-called Dual Block® Technology. This System allows you to lock the union nuts in the preset position. It prevents them separating during operation.

Technical data	
Body material	PVC-U, PP, (PVDF, PVC-C, ABS on request)
Seal material	PTFE/EPDM, PTFE/FKM
Media	Gaseous and liquid media, which do not attack the housing and sealing materials
Media temperature PVC-U PP PVDF	(see diagram Pg. 3) 0 to +60°C +10 to +80°C 0 to +120°C
Ambient temperature	-10 to +55°C
Port connections PVC-U PP, (PVDF on request9	 True union True union
Operating pressure	0-10 bar; 0-16 bar
Connection between actuator and ball valve	Flange acc. to ISO 5211
Operating voltage	24 V AC/DC, 100-240 V AC/50-60 Hz (other voltages on request)
Voltage tolerance	DC: +/-20%; AC: +/-10%
Duty rating	At max. torque: 50% of the time
Electrical connection	2 cable glands ISO 20
Protection class	IP65
Rotation angle	90° (+/-5°)
Rotation time	see ordering chart
Limit switches	4 adjustable - max. 230V / 5A 2 for motor and 2 free of potential
Material cover housing axis/screws gear unit	 ABS PA Stainless steel Steel, PC
Installation	as required, preferably with actuator upright

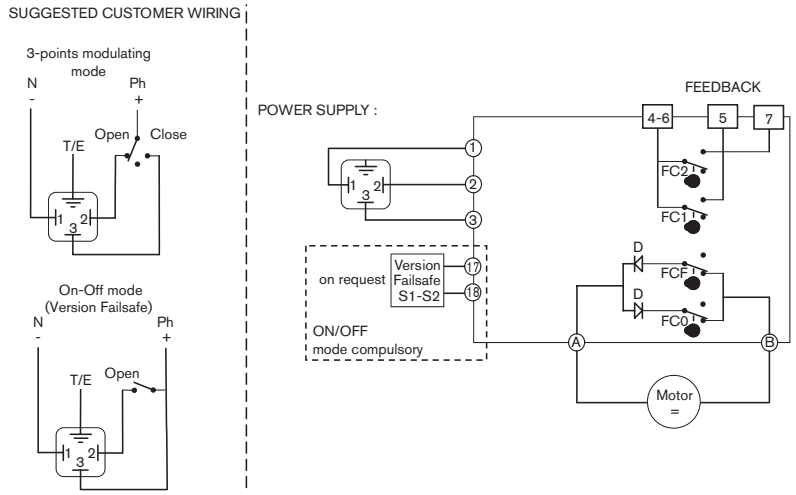
[1] Dual Block® Technology is a registered trademark of FIP - Formatura Iniezione Polimeri S.p.A

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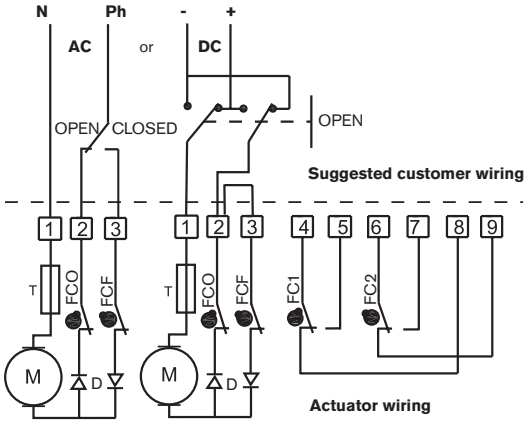
Electrical connection

Switch drawings

100 - 240 V AC/50-60 Hz multivolt version



24 V AC/DC standard version

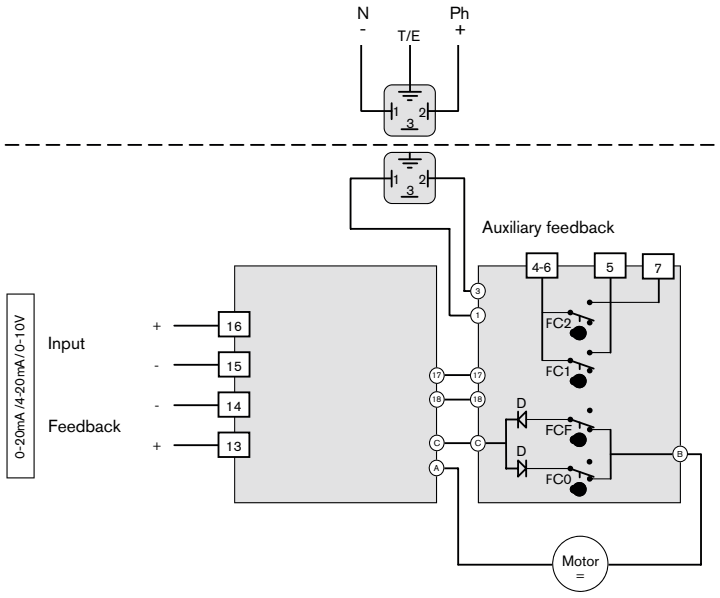


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Electrical connection

100 - 240 V AC and 24 V AC/DC

Version with analog input signal (on request)

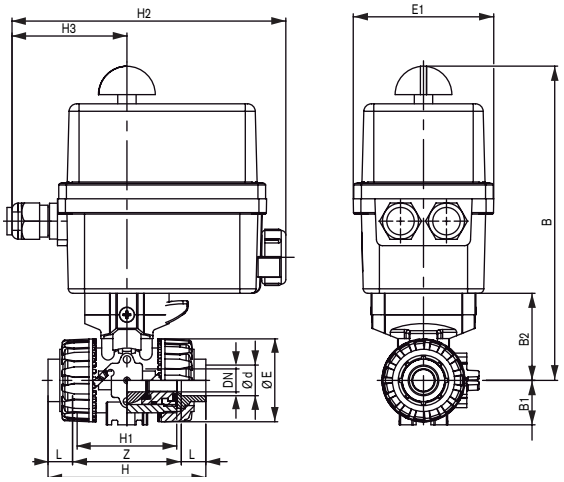


Symbol	Description
FCO	Open limit switch
FCF	Close limit switch
FC1	Auxilary 1 limit switch
FC2	Auxilary 1 limit switch
M	Motor
T	Thermal fuse

Symbol	Description
D	Diode
C	Capacitor
P	Potentiometer
H	Heating resistor
J7	Heating resistor connection
J8	Potentiometer connector

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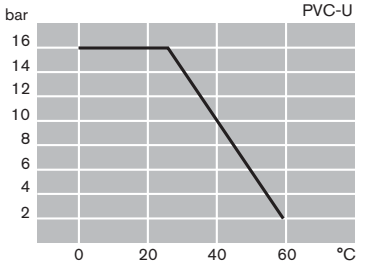
Dimensions [mm]

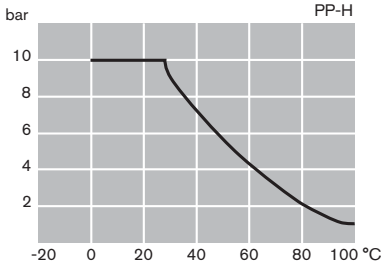


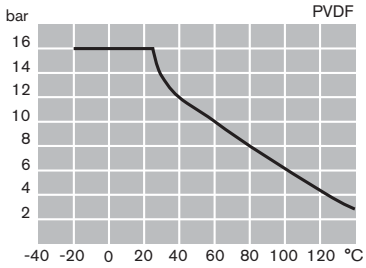
DN	Ød	H	H1	Z	L	ØE
10	16	103	65	75	14	54
15	20	103	65	71	16	54
20	25	115	70	77	19	65
25	32	128	78	84	22	73
32	40	146	88	94	26	86
40	50	164	93	102	31	98
50	63	199	111	123	38	122

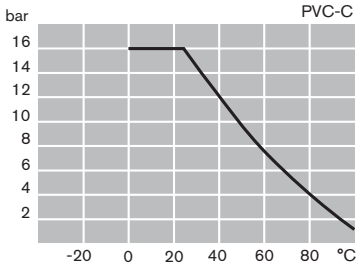
DN	B1	B2	B	E1	H2	H3
10	29	58	206	92	180	75
15	29	58	206	92	180	75
20	34.5	69	217	92	180	75
25	39	74	222	92	180	75
32	46	91	239	92	180	75
40	52	97	245	92	180	75
50	62	114	261	92	180	75

Pressure Temperature Chart









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Ordering chart (further versions on request)

Orifice DN 10-50

Orifice (mm)	Port connection Ø (mm)	Kv-value water (m^3/h)	Pressure range PVC-U, PVDF (bar)	Pressure range PP (bar)	Rotation time for 90° (s)	Voltage	Item no. True union PVC	Item no. True union PP
Seal material PTFE/EPDM								
10	16	4.8	0-16	0-10	10	100-240V AC/50-60 Hz	178 702	178 759
15	20	12	0-16	0-10	10	100-240V AC/50-60 Hz	178 703	178 760
20	25	23	0-16	0-10	10	100-240V AC/50-60 Hz	178 704	178 761
25	32	46	0-16	0-10	20	100-240V AC/50-60 Hz	178 705	178 762
32	40	66	0-16	0-10	20	100-240V AC/50-60 Hz	178 706	178 763
40	50	105	0-16	0-10	20	100-240V AC/50-60 Hz	178 707	178 764
50	63	204	0-10	0-10	20	100-240V AC/50-60 Hz	178 708	178 765
10	16	4.8	0-16	0-10	20	024 V/AC DC	178 709	178 766
15	20	12	0-16	0-10	20	024 V/AC DC	178 710	178 767
20	25	23	0-16	0-10	20	024 V/AC DC	178 711	178 768
25	32	46	0-16	0-10	20	024 V/AC DC	178 712	178 769
32	40	66	0-16	0-10	20	024 V/AC DC	178 713	178 770
40	50	105	0-16	0-10	20	024 V/AC DC	178 714	178 771
50	63	204	0-10	0-10	20	024 V/AC DC	178 715	178 772
Seal material PTFE/FKM								
10	16	4.8	0-16	0-10	10	100-240V AC/50-60 Hz	178 740	178 841
15	20	12	0-16	0-10	10	100-240V AC/50-60 Hz	178 741	178 843
20	25	23	0-16	0-10	10	100-240V AC/50-60 Hz	178 742	178 293
25	32	46	0-16	0-10	20	100-240V AC/50-60 Hz	178 743	178 988
32	40	66	0-16	0-10	20	100-240V AC/50-60 Hz	178 744	178 989
40	50	105	0-16	0-10	20	100-240V AC/50-60 Hz	178 745	178 993
50	63	204	0-10	0-10	20	100-240V AC/50-60 Hz	178 746	178 994
10	16	4.8	0-16	0-10	20	024 V/AC DC	178 747	178 995
15	20	12	0-16	0-10	20	024 V/AC DC	178 748	178 996
20	25	23	0-16	0-10	20	024 V/AC DC	178 749	179 113
25	32	46	0-16	0-10	20	024 V/AC DC	178 751	179 114
32	40	66	0-16	0-10	20	024 V/AC DC	179 291	179 115
40	50	105	0-16	0-10	20	024 V/AC DC	178 753	179 116
50	63	204	0-10	0-10	20	024 V/AC DC	178 754	179 117

Further versions on request

Materials
Body: PP, PVDF, ABS
Seal: PTFE/FKM

Voltage
Non-standard voltages

Additional
Positioner card with normal input signal 4-20 mA or 0-10 V
Feedback through Potentiometer or 4-20 mA analog signal
Slow rotation version
3-position actuator (90° or 180°)
Heating resistor 10 W
Fail safe version

Accessories

Description	Item no.
Key for adjustment of limit switches	665 296

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Note
You can fill out the fields directly in the PDF file before printing out the form.

Ball valve and butterfly valve - Request for quotation

Please fill out and send to your nearest Bürkert facility* with your inquiry or order

Company	Contact person
Customer No	Department
Address	Tel./Fax
Postcode/Town	E-mail

☐ **Quantity** ☐ **Required delivery date**

Operating data

Pipeline DN ☐ PN ☐
Pipe material ☐
Process medium ☐
Type of media ☐ Liquid ☐ Steam ☐ Gas

	Min	Standard	Max	Unit
Flow rate (Q, Q_N, W) [1]	☐	☐	☐	☐
Media temperature	☐	☐	☐	☐
Operating pressure	☐	☐	☐	☐

[1] Standard unit
Liquid Q = m³/h; Steam W = Kg/h; Gas Q_N = Nm³/h

Valve features

Type ☐ Ball valve ☐ Butterfly valve
Body material ☐ Stainless steel ☐ PVC ☐ PP ☐ PVDF ☐ other ☐
Seal material ☐ PTFE/EPDM[2] ☐ PTFE/FKM[1] ☐ EPDM ☐ FKM ☐ other ☐
Nominal pressure PN ☐
Orifice DN ☐
Type of connection ☐ Flange ☐ True union ☐ Welded ☐ Int. thread ☐ Ext. thread ☐ Tri-Clamp®
Standard connection ☐ ISO ☐ DIN ☐ ANSI ☐ JIS ☐ other ☐
Pilot pressure ☐ min. ☐ max.

[2] Only ball valve

Mode of actuation

☐ **Manual**

☐ **Pneumatic**
- ☐ SFA: NC by spring action
- ☐ Double-acting

☐ **Electric actuator**
- **Function** ☐ On/Off function ☐ Control actuator with analog signal input
- **Power supply** ☐ 230 V AC ☐ 24 V AC ☐ 24 V DC ☐ other ☐

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Reset form

In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.

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